HIGH-MECHANICAL STRENGTH COPPER ALLOY

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This application is a continuation-in-part application of U.S. patent application Ser. No. 09/966,389 filed on September now U.S. Pat. No. 6893514
27, 2001, claiming a foreign priority of JP2000-381863 filed on December 15, 2000.

FIELD

The present invention relates to a high-mechanical strength copper alloy.

BACKGROUND

In accordance with recent trends for miniaturizing and making electric and electronic machinery and tools having a high performance, a material for components used therein, such as a connector, has been required to be further improved in all the features.

For example, a spring sheet used at a contact point of a connector has been modified to become thinner and thinner, which becomes difficult to keep a sufficient contact pressure. That is, when the spring sheet is deflected at a contact point of the connector, a counterforce is generated to give a contact pressure to make electrical connection. Therefore, the thinner the sheet is made, the larger the sheet has to be deflected to keep a contact pressure at a similar level. However, when the sheet is deflected to the extent exceeding an elasticity limit of the sheet, plastic deformation is occurred. Accordingly, additional improvement is demanded to prevent plastic